

AMENDMENTS TO THE CLAIMS

The following is a complete, marked up listing of revised claims with a status identifier in parentheses, underlined text indicating insertions, and strikethrough and/or double-bracketed text indicating deletions.

Listing of Claims:

1. (CURRENTLY AMENDED) A content management system for use in a dynamic newsroom environment ~~for preparing a news media product,~~ where news events are continuously covered and news stories created and updated for publishing in one or more multiple news media products, each representing news publications and/or new delivery channels for news delivery, the content management system comprising:

data storing means, data retrieving means and data processing means,

a database system adapted to store publishing content objects (PCOs),

wherein the PCOs ~~have~~ associated PCO metadata and may include PCO content data, and the PCO content data, if present, is structured to media neutral by means of XML or a similar format ~~wherein the PCO content data, if present, is configured to be media neutral;~~ and

a plurality of input workstations configured for performing at least one function selected from the group of inputting PCO content data, modifying PCO content data, inputting PCO metadata and modifying PCO metadata;

wherein the content management system enables newsroom staff to planning ~~an the~~ expected usage of a PCO within a news media product by providing means to define ~~ing~~ and maintaining a relation between each PCO and at least one such news media product, and further wherein

the content management system enables newsroom staff to coordinate ~~ing~~ the usage of PCOs in various news media products by providing means to update ~~(alternative: is configured for updating)~~ the said relations in response to modification of PCO content data or modification of the PCO metadata, ~~to adapt thus updating~~ the news media products to reflect the priorities of news stories covered by the newsroom. ~~changes in the PCOs.~~

2. (PREVIOUSLY PRESENTED) A content management system according to claim 1, wherein the PCO content data is arranged to be media neutral by comprising content elements divided by their function.

3 (PREVIOUSLY PRESENTED) A content management system according to claim 1, wherein the PCO content data is arranged to be media neutral by storing or managing them using an XML based structure.

4. (CANCELED)

5. (PREVIOUSLY PRESENTED) A content management system according to claim 1, wherein planning the expected usage of a PCO comprises tentative or dynamic planning and coordinating of usage of the PCOs and/or fixed planning and coordinating of usage of the PCOs.

6. (PREVIOUSLY PRESENTED) A content management system according to claim 1, wherein the planning and coordinating of usage of PCOs comprises approximate and/or specific placement of PCOs, said placement referring to physical or visual location of PCOs in one or more planned news media products.

7. (PREVIOUSLY PRESENTED) A content management system according to claim 1, wherein the planning and coordinating of usage of PCOs comprises planning and coordinating of PCOs that are only planned for creation or still under creation or already existing PCOs.

8. (PREVIOUSLY PRESENTED) A content management system according to claim 1, wherein the PCO content data comprises content of types used in news media selected from the group consisting of: daily or weekly newspapers, magazines, TV and radio stations, Internet sites and other electronic news media.

9. (PREVIOUSLY PRESENTED) A content management system according to claim 1, wherein the planning and coordinating of usage of PCOs is performed by associating PCOs and information relating to PCOs with one or more layout budgets or lists, each layout budget or list

having at least one publication associated with it, and each layout budget or list representing the planned content of the associated publication(s) or a part or section thereof.

10. (ORIGINAL) A content management system according to claim 1, wherein layout budgets or lists have at least one publication date and/or time associated with them, the publication date and/or time indicating the publication date and/or time of a publication associated with the layout budget or list.

11. (ORIGINAL) A content management system according to claim 1, wherein PCOs are added to or removed from layout budgets or lists or wherein information relating to PCOs is changed on layout budgets or lists, thereby facilitating dynamic planning of content intended for use in publications.

12. (ORIGINAL) A content management system according to claim 1, wherein metadata are used for approving or suspending PCOs associated with layout budgets or lists, thereby facilitating tentative or preliminary planning of individual PCOs intended for use in publications.

13. (ORIGINAL) A content management system according to claim 1, further comprising means for filtering or sorting of PCOs based on their metadata, thereby facilitating presentation of an output according to said filtering or sorting.

14. (ORIGINAL) A content management system according to claim 1, wherein metadata are used for ranking or prioritising PCOs by associating one rank or priority out of a plurality of ranks or priorities with the metadata for a given PCO.

15. (ORIGINAL) A content management system according to claim 14, further comprising means for arranging the ranks or priorities of PCOs in a hierarchical structure.

16. (ORIGINAL) A content management system according to claim 1, further comprising means for associating a size with each PCO, the size indicating physical or visual space or time duration of the PCO when appearing in a publication.

17. (ORIGINAL) A content management system according to claim 1, further comprising means for associating a size with each PCO, the size indicating actual measured size or a planned size of the PCO when appearing in a publication.

18. (ORIGINAL) A content management system according to claim 1, wherein a layout budget or list has a predefined maximum total size indicating the space or time available within a publication or a part or a section thereof being associated with the layout budget or list.

19. (ORIGINAL) A content management system according to claim 1, wherein at least one workstation provides access to the database system and all PCOs managed in the database system, irrespective of the storage location of any particular PCO.

20. (ORIGINAL) A content management system according to claim 1, wherein the database system comprises a plurality of databases.
21. (ORIGINAL) A content management system according to claim 20, wherein the plurality of databases is physically or geographically disparate.
22. (ORIGINAL) A content management system according to claim 20 , wherein each database of the plurality of databases is adapted to store PCOs and associated metadata for a particular enterprise or a branch of an enterprise.
23. (ORIGINAL) A content management system according to claim 20 , wherein each database of the plurality of databases comprises a searchable index of the metadata and/or content associated with the PCOs stored in that database.
24. (ORIGINAL) A content management system according to claim 23 , wherein the searchable indices are synchronised into a consolidated index, thereby facilitating a consolidated access to or view of the PCOs stored in the plurality of databases.
25. (ORIGINAL) A content management system according to claim 20 , wherein a central searchable index of metadata and/or content associated with the PCOs stored in the

plurality of databases is provided, thereby facilitating a consolidated access to or view of the PCOs stored in the plurality of databases.

26. (ORIGINAL) A content management system according to claim 1, wherein a consolidated access to or view of PCOs is provided, irrespective of their storage location or database.

27. (ORIGINAL) A content management system according to claim 1, further comprising means to support users from at least one workstation to perform the management task of tracking the status of one or more PCOs.

28. (ORIGINAL) A content management system according to claim 1, further comprising means to support users to perform, from at least one workstation, the management task of associating metadata with one of a plurality of desk budgets, the desk budgets providing a list of PCOs that are planned or under creation within a given desk or department.

29. (ORIGINAL) A content management system according to claim 1, further comprising means for supporting users from at least one workstation to perform the management task of organising PCOs into groupings.

30. (ORIGINAL) A content management system according to claim 29, wherein the means for organising PCOs into groupings comprises

means for defining projects or projects and sub-projects in the content management system, and

means for including one or more PCOs in one or more projects or sub-projects, thereby facilitating an overview of PCOs involved in larger news events.

31. (ORIGINAL) A content management system according to claim 30, further comprising means for arranging the projects and sub-projects in a hierarchical structure.

32. (ORIGINAL) A content management system according to claim 30 , further comprising means for filtering PCOs by project or sub-project, thereby facilitating a presentation of PCOs related to the project or sub-project.

33. (ORIGINAL) A content management system according to claim 30 , wherein metadata are associated with projects or sub-projects, thereby providing information relating to the project or sub-project.

34. (ORIGINAL) A content management system according to claim 33, wherein at least part of the metadata associated with a given project or sub-project is applied to the PCOs included in that project or sub-project.

35. (ORIGINAL) A content management system according to claim 29 , wherein the means for organising PCOs into groupings comprises means for associating a selected plurality

of PCOs, irrespective of other groupings in which they might be included, so as to form an association, thereby facilitating any subject, topical or other desired relationship between PCOs.

36. (ORIGINAL) A content management system according to claim 35, further comprising means for filtering PCOs by association, thereby facilitating a presentation of associated PCOs.

37. (ORIGINAL) A content management system according to claim 35, further comprising means for linking between a PCO and any of its associated PCOs, thereby facilitating automatic or simplified maintenance of link relationships between associated PCOs.

38. (ORIGINAL) A content management system according claim 35, further comprising means for assembling associated PCOs into packages intended or suggested for collective publication.

39. (ORIGINAL) A content management system according to claim 35, further comprising means for describing the category or nature of a given PCO's relationship with its associated PCOs.

40. (ORIGINAL) A content management system according to claim 1, wherein the database system comprises means for creating one or more assignments, each assignment being

an administrative entity for managing one or more PCOs, the PCO(s) being planned for creation or still under creation or already existing PCO(s).

41. (PREVIOUSLY PRESENTED) A content management system according to claim 40, further comprising means for associating PCO metadata with assignments.

42. (PREVIOUSLY PRESENTED) A content management system according to claim 41, wherein at least part of the PCO metadata associated with an assignment applies to one or more PCOs being managed through that assignment as well as to the assignment itself.

43. (PREVIOUSLY PRESENTED) A content management system according to claim 41, wherein the PCO metadata comprises at least one of the following types of information relating to assignment management:

- an address and/or name of a geographical location of a news event,
- one or more people expected to attend a news event,
- a start time and/or end time and/or duration of a news event,
- one or more contacts at a news event,
- one or more appointments at a news event,
- one or more items of research information or interviews or links to such items, and
- a deadline.

44. (PREVIOUSLY PRESENTED) A content management system according to claim 1, wherein the PCO metadata comprises at least one of

- a slug or name,
- a description,
- an origination,
- a type,
- a status,
- a reference to at least one news media product,
- keywords,
- an abstract or summary,
- notes,
- a modification log,
- access control information,
- an originating newsroom,
- an originating desk,
- an assignment editor,
- an author,
- a deadline, and
- intellectual property rights.

45. (PREVIOUSLY PRESENTED) A content management system according to claim 1, wherein the PCO metadata comprises at least one of

a name,
a news media product date and/or time,
a revision specific edition,
a geographical or topical edition,
a logical or physical storage address in a computer system,
a specific physical or visual placement or location within the news media product,
a deadline,
a layout budget or list associated with the news media product,
a size of the publication or within in the news media product, and
a ranking or priority within the news media product.

46. (PREVIOUSLY PRESENTED) A content management system according to claim 1, further comprising means for ensuring that PCO metadata contains only valid combinations of information.

47. (PREVIOUSLY PRESENTED) A content management system according to claim 1, wherein the PCO metadata comprises at least one of the following types of information relating to access control:

permissions to view the existence of an item in the database system,
permission types and/or levels of access to an item in the database system, and
rules specifying conditions for specific permissions to take effect on an item in the database system.

48. (PREVIOUSLY PRESENTED) A content management system according to claim 1, wherein at least a portion of the PCO metadata is stored as database fields in the database system.

49. (PREVIOUSLY PRESENTED) A content management system according to claim 1, wherein at least a portion of the PCO metadata is stored as tags and/or attributes within the PCO content data.

50. (ORIGINAL) A content management system according to claim 1, wherein the database system comprises means for enabling a system administrator or workstation user to define one or more additional metadata fields, thereby facilitating customised information to be stored in the database system.

51. (ORIGINAL) A content management system according to claim 1, wherein a set of metadata fields is definable by a system administrator or workstation user.

52. (ORIGINAL) A content management system according to claim 50, wherein substantially all metadata fields are definable by a system administrator or workstation user.

53. (ORIGINAL) A content management system according to claim 1, wherein a set of metadata fields is definable by the content type of a given PCO.

54. (ORIGINAL) A content management system according to claim 1, wherein at least some PCOs or other database items stored in the database system are associated with specific icons, thereby allowing a workstation user to identify the type of item by a visual appearance of its icon.

55. (PREVIOUSLY PRESENTED) A content management system according to claim 1, wherein changes to PCO metadata or changes to PCO content data are logged during a news media production workflow.

56. (PREVIOUSLY PRESENTED) A content management system according to claim 1, wherein automation rules defined by system administrators or by workstation users enable triggering of automatic actions based on changes to PCO metadata or changes to PCO content data.

57. (CURRENTLY AMENDED) A content management system according to claim 56, wherein an action selected from the group consisting of

- notifying or alerting users,
- triggering workflow events,
- triggering user specified actions,
- triggering automatic archival or purging, and
- triggering a routing of PCOs or other database items

[[are]] is triggered when the condition of an automation rule is met.

58. (PREVIOUSLY PRESENTED) A content management system according to claim 1, wherein production and/or publication of the news media product using the PCOs stored in the database system is facilitated by one or more production systems integrated with the database system.

59. (PREVIOUSLY PRESENTED) A content management system according to claim 58, wherein at least PCO metadata stored in the database system is accessible from a production system.

60. (PREVIOUSLY PRESENTED) A content management system according to claim 58, wherein at least PCO metadata corresponding to status or production data or other metadata from a production system is accessible from the content management system.

61. (PREVIOUSLY PRESENTED) The content management system according to claim 1, wherein:

the news media product includes at least one member selected from the group consisting of newspapers, news magazines, video newscasts, audio newscasts, streaming newscasts, websites, mobile devices and wire services.

62. (PREVIOUSLY PRESENTED) The content management system according to claim 1, wherein coordinating the expected usage of the PCO within the news media product further comprises:

adapting the expected usage in response to modifications of the PCO metadata or PCO content to obtain an updated expected usage; and

converting an updated expected usage to determine an actual usage of the PCO content data within the news media product.

63. (NEW) A content management system according to claim 1, wherein:

the news media products includes at least one member selected from the group consisting of newspapers, news magazines, video newscasts, audio newscasts, streaming newscasts, websites, mobile devices and wire services.